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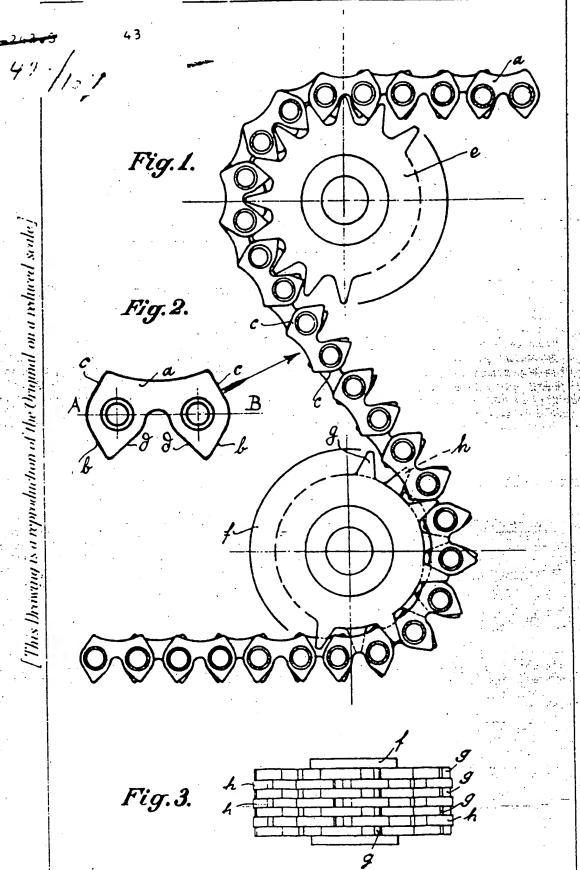
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SPECIFICATION PATENT

Convention Date (Germany): March 13, 1924.

230,839



Application Date (In United Kingdom): March 12, 1925. No. 6725 / 25.

Complete Accepted: Aug. 27, 1925.

COMPLETE SPECIFICATION.

Improvements in or relating to Chain Driving Gear.

AKTIENGESELLSCHAFT AUTOK FABRIK FUR TRIEBKETTEN, of Frankfurter Allee 319, Berlin O. 112, Germany, a German company, do hereby declare the 5 nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:

This invention relates to improvements 10 in sprocket wheel gears of the type in which each link of the chain is provided with two teeth extending to one side while the other side of the link is smooth.

The invention consists in that the ends 15 of each link of the chain are formed towards the smooth side as tooth flanks.

With this construction of the chain it is possible, without modifying the main sprocket wheels, to cause the rear of the 20 chain to co-operate with a toothed wheel the pitch of which is double that of the main sprocket wheels and which may be used to stretch the chain and, if necessary, to transmit power.

The invention will be more particuarly described with reference to the accompanying drawing showing by way of example an embodiment thereof.

Figure 1 shows in side elevation a chain drive with a sprocket wheel engaging with the front side of the chain, and an additional sprocket wheel engaging with the rear side thereof,

Figure 2 is an elevation of a chain

35 link on an enlarged scale.

Figure 3 is a plan of the sprocket wheel in engagement with the rear side of the

chain. The chain is composed in the usual 40 manner of a plurality of adjacently disposed rows of chain links a provided with teeth. In the case shown as an exemplification seven rows are employed. Each toothed link possesses tooth flanks b and 45 c at its front and rear ends on both sides of the plane A-B which may be imagined to pass through the axis of the chain bolts. The tooth flanks b enclose the same face angle as the tooth flanks c.

Moreover, every chain link possesses the 50 The tooth usual inner tooth flanks d. flanks b and d on the front side of the chain co-operate with the chain wheel or sprocket wheel e, while the flanks c are adapted for engagement with the teeth of 55 the chain or sprocket wheel f. The teeth of said sprocket wheel f are arranged in staggering rows or alternating with each other. Each of the rows of teeth g and h possesses a division of pitch line twice as 60 large as that of the wheel e. The chain wheel or sprocket wheel f is preferably composed of several toothed discs staggeringly or alternatively arranged with relation to each other as shown in Figure 65 The said toothed discs may be connected to each other in any suitable

The invention has been shown and described in its broad aspects and it 70 should be understood that the shape of the parts may he changed and other alterations and modifications may occur within the ambit of the claims hereunto appended.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:-

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1. A sprocket wheel gear in which each link of the chain is provided with two teeth extending to one side while the other side is smooth, characterised in that the ends of each link of the chain are 85 formed as tooth flanks (such as c) towards the smooth side.

2. Double sided chain drive substantially as described with reference to the accompanying drawing.

Dated this 12th day of March, 1925.

AUTOK AKTIENGESELLSCHAFT FABRIK FUR TRIEBKETTEN, Per Boult. Wade & Tennant, 111 & 112, Hatton Garden, London, 95 E.C. 1, Chartered Patent Agents.

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